



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/798, 096 A
Source: IFWO
Date Processed by STIC: 7/27/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/cbc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>10/798,096A</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input checked="" type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>.<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>.<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>.<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>.<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (ii) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Please also adjust the "(ii) NUMBER OF SEQUENCES" response to include the skipped sequences Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>.<223> is MANDATORY if n's or Xaa's are present In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>.<223> section is required when <213> response is Unknown or Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/798,096A

DATE: 07/27/2004
TIME: 11:56:44

Input Set : A:\pto.lm.TXT
Output Set: N:\CRF4\07272004\J798096A.raw

3 <110> APPLICANT: Rea-Min Chu
4 Ching-Yi Lin
5 Ya-Wen Hsiao
6 Kuang-Wen Liao
W--> 7 <120> TITLE OF INVENTION: COMPLEX IMMUNO-GENE MEDICAL COMPOSITION FOR INHIBITING TUMOR CELLS
W--> 8 <130> FILE REFERENCE: P/741-176
W--> 9 <140> CURRENT APPLICATION NUMBER: 10/798,096A
10 <141> CURRENT FILING DATE: 2004-03-11
W--> 11 <160> NUMBER OF SEQ ID: 4

ERRORED SEQUENCES

13 <210> SEQ ID NO: 1
14 <211> LENGTH: 636
15 <212> TYPE: DNA
16 <213> ORGANISM: Human
17 <223> OTHER INFORMATION: IL-6
E--> 19 <400> SEQUENCE: 1
20 atg aac tcc ttc tcc aca agc gcc ttc ggt cca gtt gcc tcc tcc ctg ggg ctg ctc ctg
21 60
22 Met Asn Ser Phe Ser Thr Ser Ala Phe Gly Pro Val Ala Phe Ser Leu Gly Leu Leu Leu
23 1 5 10 15 20
E--> 24 26 stg ttg cct gct gcc ttc cct gcc cca gta ccc cca gga gaa gat tcc aaa gat gta gcc
25 120
26 Val Leu Pro Ala Ala Phe Pro Ala Pro Val Pro Pro Gly Glu Asp Ser Lys Asp Val Ala
27 29 25 30 35 40
E--> 31 gcc cca cac aga cag cca ctc acc tct tca gaa cga att gac aaa caa att cgg tac atc
32 180
33 Ala Pro His Arg Gln Pro Leu Thr Ser Ser Glu Arg Ile Asp Lys Gln Ile Arg Tyr Ile
34 45 50 55 60
E--> 36 ctc gag ggc atc tca gcc ctg aga aag gag aca tgt aac aag agt aac atg tgt gaa
37 (agc 240)
38 Leu Asp Gly Ile Ser Ala Leu Arg Lys Glu Thr Cys Asn Lys Ser Asn Met Cys Glu Ser
39 65 70 75 80
E--> 41 agc aaa gag gca ctg gca gaa aac aac ctg aac ctt cca aag atg gct gaa aaa gat gga
42 (300)
43 Ser Lys Glu Ala Leu Ala Glu Asn Asn Leu Asn Leu Pro Lys Met Ala Glu Lys Asp
W--> 44 Gly
W--> 45 85 90 95 100
E--> 47 tgc ttc caa tct gga ttc aat gag gag act tgc ctg gtg aaa atc atc act ggt ctt ttg
48 (360)
49 Cys Phe Gln Ser Gly Phe Asn Glu Glu Thr Cys Leu Val Lys Ile Ile Thr Gly Leu Leu

RAW SEQUENCE LISTING
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Input Set : A:\pto.lm.TXT
Output Set: N:\CRF4\07272004\J798096A.raw

W--> 50 105 110 115 120
 E--> 52 gag ttt gag gta tac cta cag tac ctc cag aac aga ttt gag agt agt gag gaa caa gcc
 53 420
 54 Glu Phe Glu Val Tyr Leu Glu Tyr Leu Gln Asn Arg Phe Glu Ser Ser Glu Glu Gln Ala
 W--> 55 125 130 135 140
 E--> 57 aga gct gtg cag atg agt aca aaa gtc ctg atc cag ttc ctg cag aaa aag gca aag aat
 58 480
 59 Arg Ala Val Gln Met Ser Thr Lys Val Leu Ile Gln Phe Leu Gln Lys Lys Ala Lys Asn
 W--> 60 145 150 155 160
 E--> 62 cta gat gca ata acc acc cct gac cca acc aca aat gcc agc ctg ctg acg aag ctg cag
 63 540
 64 Leu Asp Ala Ile Thr Thr Pro Asp Pro Thr Thr Asn Ala Ser Leu Leu Thr Lys Leu Gln
 W--> 65 165 170 175 180
 E--> 67 gca cag aac cag tgg ctg cag gac atg aca act cat ctc att ctg cgc agc ttt aag gag
 68 600
 69 Ala Gln Asn Gln Trp Leu Gln Asp Met Thr Thr His Leu Ile Leu Arg Ser Phe Lys Glu
 W--> 70 185 190 195 200
 E--> 72 tcc ctg cag tcc agc ctg agg gct ctt cgg caa atg
 73 636
 74 Phe Leu Gln Ser Ser Leu Arg Ala Leu Arg Gln Met
 W--> 75 205 210
 77 <210> SEQ ID NO: 2
 78 <211> LENGTH: 60
 79 <212> TYPE: DNA
 80 <213> ORGANISM: Human
 81 <223> OTHER INFORMATION: IL-2 Signal Peptide
 E--> 83 <400> SEQUENCE: 2
 E--> 85 atg tac agg atg caa ctc ctg tct tgc att gca cta agt ctt gca ctt gtc aca aac agt
 86 60
 87 Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu Val Thr Asn Ser
 88 1 5 10 15 20
 91 <210> SEQ ID NO: 3
 92 <211> LENGTH: 342
 93 <212> TYPE: DNA
 94 <213> ORGANISM: Human
 95 <223> OTHER INFORMATION: Partial Sequence Encoding Human IL-15
 97 <400> SEQUENCE: 3
 E--> 99 aac tgg gtg aat gta ata agt gat ttg aaa aaa att gaa gat ctt att caa tct atg cat
 100 60
 101 Asn Trp Val Asn Val Ile Ser Asp Leu Lys Lys Ile Glu Asp Leu Ile Gln Ser Met His
 102 1 5 10 15 20
 E--> 104 atc gat gct act tta tat acg gaa agt gat gtt cac ccc agt tgc aaa gta aca gca atg
 105 120
 106 Ile Asp Ala Thr Leu Tyr Thr Glu Ser Asp Val His Pro Ser Cys Lys Val Thr Ala Met
 107 25 30 35 40
 E--> 109 aag tgc ttt ctc ttg gag tta caa gtt att tca ctt gag tcc gga gat gca agt att cat
 110 180
 111 Lys Cys Phe Leu Leu Glu Leu Gln Val Ile Ser Leu Glu Ser Gly Asp Ala Ser Ile His
 112 45 50 55 60

please insert
 (220), // same error
 whenever (221), (222) or (223)
 is present,

insert

(220) // same error

only

16

COTONS

VALID

per
line.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/798,096A

DATE: 07/27/2004
TIME: 11:56:44

Input Set : A:\pto.lm.TXT
Output Set: N:\CRF4\07272004\J798096A.raw

B--> 114 gat aca gta gaa aat ctg atc atc cta gca aac aac agt ttg tct tct aat ggg aat gta
 115 (240)
 116 Asp Thr Val Glu Asn Leu Ile Ile Leu Ala Asn Asn Ser Leu Ser Ser Asn Gly Asn
 W--> 117 Val
 W--> 118 65 70 75 80
 B--> 120 aca gaa tct gga tgc aaa gaa tgt gag gaa ctg gag gaa aaa aat att aaa gaa ttt ttg
 121 (300)
 122 Thr Glu Ser Gly Cys Lys Glu Cys Glu Glu Leu Glu Lys Asn Ile Lys Glu Phe Leu
 W--> 123 85 90 95 100
 B--> 125 eag agt ttt gta cat att gtc caa atg ttc atc aac act tct
 126 (342)
 127 Gln Ser Phe Val His Ile Val Gln Met Phe Ile Asn Thr Ser
 W--> 128 105 110
 131 <210> SEQ ID NO: 4
 132 <211> LENGTH: 402
 133 <212> TYPE: DNA
 134 <213> ORGANISM: Artificial Sequence
 W--> 135 <220> FEATURE: Bases 1-60 Code for IL-2 Signal Peptide
 W--> 135 <220> FEATURE: BASES 1-60 Code for IL-2 Signal Peptide
 136 <223> OTHER INFORMATION: Artificial Chimeric Sequence Encoding IL-2SP/IL-15MP MIMIC
 138 <400> SEQUENCE: 4
 B--> 140 atg tac agg atg caa ctc ctg tct tgc att gca cta agt ctt gca ctt gtc aca aac agt
 141 (60)
 142 Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu Val Thr Asn Ser
 143 1 5 10 15 20
 B--> 145 aad tgg gtg aat gta ata agt gat ttg aaa aaa att gaa gat ctt att caa tct atg cat
 146 (120)
 147 Asn Trp Val Asn Val Ile Ser Asp Leu Lys Lys Ile Glu Asp Leu Ile Gln Ser Met His
 148 25 30 35 40
 B--> 150 att gat gct act tta tat acg gaa agt gat gtt cac ccc agt tgc aaa gta aca gca atg
 151 (180)
 152 Ile Asp Ala Thr Leu Tyr Thr Glu Ser Asp Val His Pro Ser Cys Lys Val Thr Ala Met
 153 45 50 55 60
 B--> 155 aag tgc ttt ctc ttg gag tta caa gtt att tca ctt gag tcc gga gat gca agt att cat
 156 (240)
 157 Lys Cys Phe Leu Leu Glu Leu Gln Val Ile Ser Leu Glu Ser Gly Asp Ala Ser Ile His
 158 65 70 75 80
 B--> 160 gat aca gta gaa aat ctg atc atc cta gca aac aac agt ttg tct tct aat ggg aat gta
 161 (300)
 162 Asp Thr Val Glu Asn Leu Ile Ile Leu Ala Asn Asn Ser Leu Ser Ser Asn Gly Asn Val
 163 85 90 95 100
 B--> 165 aca gaa tct gga tgc aaa gaa tgt gag gaa ctg gag gaa aaa aat att aaa gaa ttt ttg
 166 (360)
 167 Thr Glu Ser Gly Cys Lys Glu Cys Glu Glu Leu Glu Lys Asn Ile Lys Glu Phe Leu
 168 105 110 115 120
 B--> 170 eag agt ttt gta cat att gtc caa atg ttc atc aac act tct
 171 (402)
 172 Gln Ser Phe Val His Ile Val Gln Met Phe Ile Asn Thr Ser
 173 125 130

delete ↗ Same error
Please do not insert
a response beside
identifier (220).

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/27/2004
PATENT APPLICATION: US/10/798,096A TIME: 11:56:45

Input Set : A:\pto.lm.TXT
Output Set: N:\CRF4\07272004\J798096A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 21,23,26,28,31,33,38,64,72
Seq#:2; Line(s) 87
Seq#:3; Line(s) 101,106,111,122,125
Seq#:4; Line(s) 142,147,152,157,162,167

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/798,096A

DATE: 07/27/2004

TIME: 11:56:45

Input Set : A:\pto.lm.TXT

Output Set: N:\CRF4\07272004\J798096A.raw

L:7 M:283 W: Missing Blank Line separator, <120> field identifier
 L:8 M:283 W: Missing Blank Line separator, <130> field identifier
 L:9 M:283 W: Missing Blank Line separator, <140> field identifier
 L:11 M:283 W: Missing Blank Line separator, <160> field identifier
 L:19 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:1
 L:21 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:1
 L:26 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:120 SEQ:1
 L:31 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:180 SEQ:1
 L:36 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:237 SEQ:1
 L:41 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:300 SEQ:1
 L:44 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:45 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:47 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:360 SEQ:1
 L:50 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:52 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:420 SEQ:1
 L:55 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:57 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:480 SEQ:1
 L:60 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:62 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:540 SEQ:1
 L:65 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:67 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:600 SEQ:1
 L:70 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:72 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:636 SEQ:1
 L:75 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:83 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:2
 L:85 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:2
 L:97 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:3
 L:99 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:3
 L:104 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:120 SEQ:3
 L:109 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:180 SEQ:3
 L:114 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:240 SEQ:3
 L:117 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
 L:118 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
 L:120 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:300 SEQ:3
 L:123 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
 L:125 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:342 SEQ:3
 L:128 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
 L:135 M:283 W: Missing Blank Line separator, <220> field identifier
 L:135 M:256 W: Invalid Numeric/Header Field, <220> has non-blank data
 L:140 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:4
 L:145 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:120 SEQ:4
 L:150 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:180 SEQ:4
 L:155 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:240 SEQ:4
 L:160 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:300 SEQ:4
 L:165 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:360 SEQ:4
 L:170 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:402 SEQ:4